

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00677\_10 ~ SP6ES-11L35K-DX-AR6WES-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00677\_10\_M-11L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 7/27/2018

[UPDATE] 10/10/2018

[LUMCAT] SP6ES-11L35K-DX-AR6WES-MW

[LUMINAIRE] Nom. 6.0" Aperture, LED Wall Wash

[OTHER] Matte white trim, open aperture

[OTHER] Peened 'kicker' reflector

[OTHER] Any flange finish

[LAMP] N/A

[LAMPCAT] N/A, 3500K CCT

[OTHER] Fully regressed lensed, light emitting surface

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 4000K X 1.03, 3000K X 0.985

[OTHER] This report prepared by Spectrum Lighting, scaled from 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	927
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	11
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00677\_10 ~ SP6ES-11L35K-DX-AR6WES-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26572	15612	7186
55	26677	10425	5798
65	20249	6753	5122
75	11858	4763	4036
85	4659	1907	1675

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	670.616	670.616	670.616	670.616	670.616	670.616	670.616	670.616	670.616	670.616
2.5	673.475	670.765	670.824	668.648	665.562	668.296	667.917	663.150	674.537	669.693
5.0	672.455	669.450	668.596	662.573	659.826	664.391	662.470	658.407	664.374	664.402
7.5	671.567	669.423	664.550	653.908	651.374	656.929	649.293	637.416	643.872	644.366
10.0	670.771	667.304	660.277	644.102	641.035	646.999	630.118	614.395	608.456	619.326
12.5	666.455	662.025	651.826	633.676	625.853	631.838	602.651	574.069	561.073	577.741
15.0	660.136	654.496	643.108	617.338	607.872	613.699	568.712	532.561	506.641	531.950
17.5	651.547	644.205	626.925	598.399	585.086	588.394	527.484	475.798	447.619	475.159
20.0	641.912	632.389	610.466	575.980	560.084	559.784	480.257	418.586	384.788	416.288
22.5	630.578	619.001	589.810	552.347	530.232	523.934	427.436	355.999	319.899	353.183
25.0	618.632	598.118	567.597	515.590	498.632	485.475	375.035	294.006	259.614	289.563
27.5	593.167	570.935	528.542	475.391	450.940	436.376	322.957	238.770	201.305	235.402
30.0	563.939	535.580	487.875	420.438	398.674	384.315	273.654	185.797	160.030	181.818
32.5	526.255	494.556	436.246	362.588	339.803	329.498	226.086	148.222	124.419	146.816
35.0	486.833	451.664	384.458	300.407	279.573	274.115	184.088	114.965	108.197	112.954
37.5	445.940	407.710	331.947	237.672	222.966	223.570	144.974	101.538	97.003	102.134
40.0	404.847	368.285	281.763	183.975	166.868	173.686	117.473	90.008	90.836	91.820
42.5	373.569	330.911	239.390	130.884	129.068	136.441	94.724	85.111	85.593	87.045
45.0	343.060	308.288	201.566	105.288	92.781	100.241	83.578	80.204	80.998	82.138
47.5	328.693	290.971	175.849	80.834	82.244	86.407	76.089	75.268	76.479	76.349
50.0	314.669	275.927	151.314	74.933	72.471	73.357	70.846	70.249	71.018	70.693
52.5	297.461	261.515	129.250	69.021	66.555	67.955	66.152	65.059	65.495	65.634
55.0	279.378	235.810	109.181	62.992	60.723	62.585	61.308	59.916	60.023	60.699
57.5	249.413	207.846	92.495	56.985	56.025	57.653	56.439	54.856	54.546	56.178
60.0	219.237	177.420	77.100	51.135	51.189	52.632	51.375	50.049	48.903	51.230
62.5	187.506	146.660	63.502	45.317	45.340	46.963	46.291	45.598	43.319	45.164
65.0	156.250	120.186	52.110	39.650	39.521	41.400	40.446	40.513	38.364	39.427
67.5	127.103	94.233	43.149	34.020	33.840	36.301	34.614	34.732	33.475	34.340
70.0	99.695	72.557	35.196	28.489	28.489	31.096	29.585	29.413	28.866	29.239
72.5	75.606	53.143	27.869	23.400	23.769	25.686	24.576	24.385	24.157	24.121
75.0	56.037	38.770	22.507	18.719	19.072	21.280	19.608	20.541	19.320	19.727
77.5	39.602	28.077	17.103	14.384	14.433	16.968	15.198	15.962	14.853	15.231
80.0	27.114	18.928	11.569	9.801	9.974	11.336	10.545	10.481	10.236	10.219
82.5	17.115	10.834	7.006	5.477	6.201	6.256	5.919	6.586	5.914	6.626
85.0	7.414	4.748	3.034	2.533	2.665	4.049	3.215	3.233	2.945	2.975
87.5	1.538	1.310	1.005	0.864	0.876	1.263	1.074	1.125	1.397	1.291
90.0	0.288	0.450	0.227	0.414	0.394	0.244	0.613	0.188	0.414	0.209

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	670.616	670.616	670.616	670.616	670.616	670.616	670.616
2.5	672.218	670.186	668.679	669.099	667.288	666.387	673.475
5.0	669.431	665.889	664.782	664.261	664.671	665.572	672.455
7.5	657.471	659.233	657.144	655.598	660.727	664.077	671.567
10.0	640.981	650.194	646.385	644.498	656.279	661.447	670.771
12.5	611.328	635.622	633.123	631.441	649.953	655.518	666.455
15.0	577.114	616.491	616.470	615.242	643.073	647.793	660.136
17.5	532.414	591.161	597.609	596.996	628.741	636.007	651.547
20.0	484.169	561.622	575.054	574.765	612.769	623.919	641.912
22.5	429.349	526.574	550.563	550.413	590.966	611.274	630.578

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<b>25.0</b>	375.241	488.463	517.614	515.932	568.294	592.609	618.632
<b>27.5</b>	322.196	440.648	481.038	477.109	527.696	564.951	593.167
<b>30.0</b>	271.588	388.539	428.534	424.130	485.409	530.616	563.939
<b>32.5</b>	223.981	334.332	370.735	366.446	431.749	488.177	526.255
<b>35.0</b>	181.591	279.388	310.411	305.534	377.694	444.760	486.833
<b>37.5</b>	144.516	228.965	249.446	243.784	325.159	400.347	445.940
<b>40.0</b>	116.539	179.760	195.634	189.941	273.124	359.460	404.847
<b>42.5</b>	96.128	141.662	143.136	137.551	229.100	321.505	373.569
<b>45.0</b>	83.899	105.707	112.573	110.155	187.052	296.777	343.060
<b>47.5</b>	77.364	89.689	84.572	85.676	161.066	280.990	328.693
<b>50.0</b>	71.980	76.343	76.638	77.329	136.145	266.409	314.669
<b>52.5</b>	67.242	70.232	69.925	70.029	116.808	252.506	297.461
<b>55.0</b>	61.959	64.643	65.271	63.425	98.335	228.284	279.378
<b>57.5</b>	56.432	59.257	60.552	56.874	83.233	199.445	249.413
<b>60.0</b>	50.950	53.876	53.780	51.449	69.354	170.344	219.237
<b>62.5</b>	45.484	48.572	47.222	46.050	59.065	141.153	187.506
<b>65.0</b>	40.270	43.286	42.880	40.952	49.635	114.739	156.250
<b>67.5</b>	35.124	38.171	38.222	35.813	42.073	89.076	127.103
<b>70.0</b>	29.817	32.828	32.212	30.497	34.982	69.808	99.695
<b>72.5</b>	24.673	26.860	26.959	25.116	28.435	52.194	75.606
<b>75.0</b>	20.293	22.348	22.639	19.656	22.882	38.845	56.037
<b>77.5</b>	16.258	18.462	17.631	15.884	17.555	28.395	39.602
<b>80.0</b>	11.990	12.948	13.206	11.266	12.174	19.758	27.114
<b>82.5</b>	7.064	8.849	9.354	6.365	8.124	11.921	17.115
<b>85.0</b>	3.638	4.418	5.161	3.265	3.208	5.107	7.414
<b>87.5</b>	1.394	1.939	1.817	1.284	1.350	1.455	1.538
<b>90.0</b>	0.539	0.425	0.474	0.368	0.316	0.293	0.288

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Zone	Lumens	%Lamp	%Fixt
0-20	231.29	N.A.	25.00
0-30	446.11	N.A.	48.10
0-40	626.07	N.A.	67.60
0-60	835.66	N.A.	90.20
0-80	921.28	N.A.	99.40
0-90	926.73	N.A.	100.00
10-90	863.94	N.A.	93.20
20-40	394.78	N.A.	42.60
20-50	513.49	N.A.	55.40
40-70	268.10	N.A.	28.90
60-80	85.62	N.A.	9.20
70-80	27.11	N.A.	2.90
80-90	5.45	N.A.	0.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	926.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	62.79
10-20	168.50
20-30	214.82
30-40	179.96
40-50	118.71
50-60	90.88
60-70	58.51
70-80	27.11
80-90	5.45
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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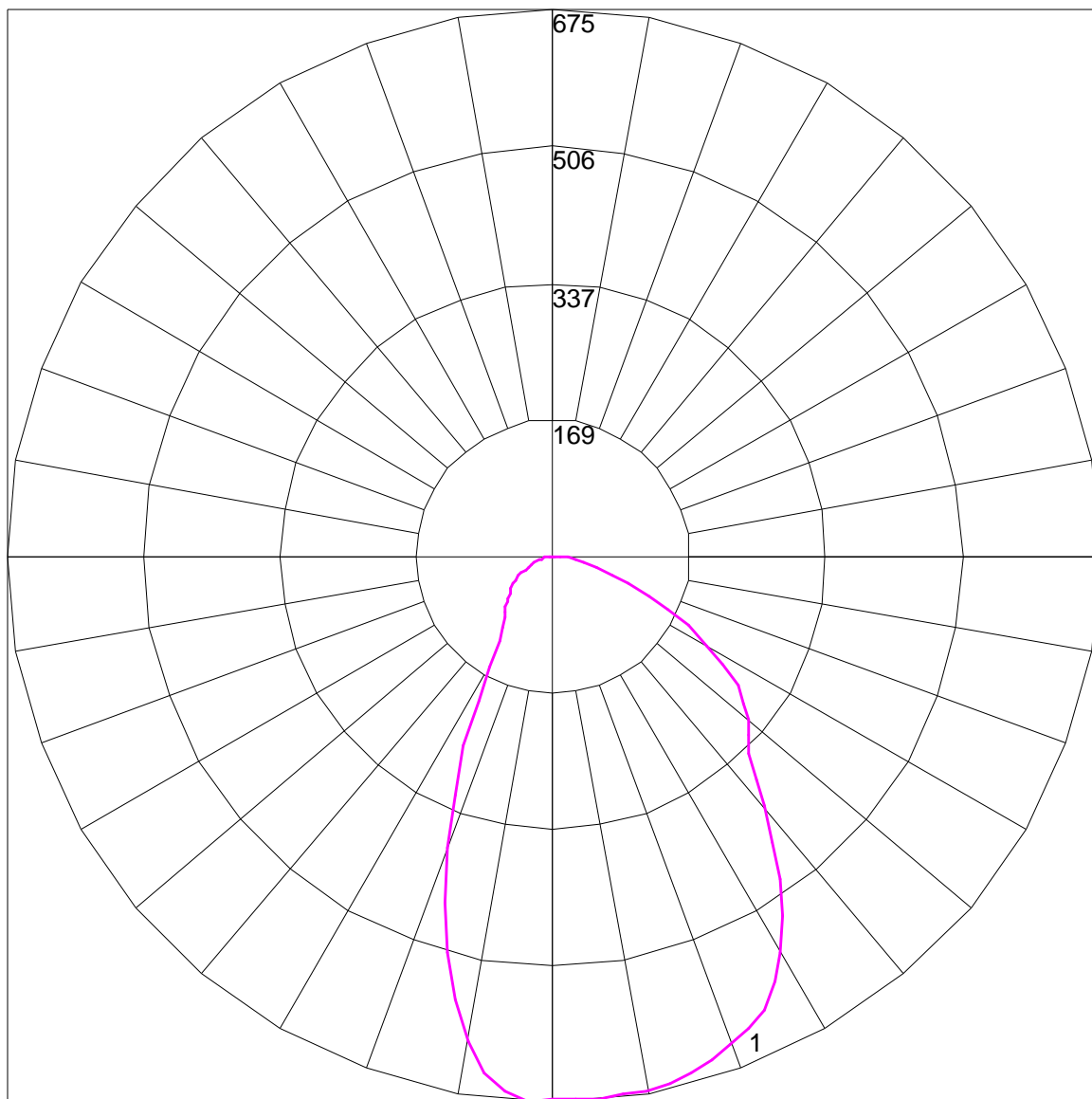
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

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POLAR GRAPH



Maximum Candela = 674.537 Located At Horizontal Angle = 180, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)